

SOL7DCAM

SOL07 Drop Camera

Overview:

DTC's SOL7DCAM incorporates a COFDM digital video transmitter, battery, camera and microphone into a rapid deployment robust chassis. The integral PAL or NTSC camera can also be abstracted on a cable or used as a generic video input, giving this generation of DropCam a high degree of flexibility.

The SOL7DCAM is ideal for rapid deployment tactical scenarios where video coverage is required across ranges of typically 300-500m non-line-of-sight.

The SOL7DCAM is compatible with the full range of accessory cameras, including pinhole and IR, some of which can also dock directly. PTZ cameras can also be connected with camera control received wirelessly by the CAMTELTX telemetry option.

Product Information:

Product Includes

Mounting camera 3.6mm lens
Replacement 8mm and 16mm lens
Antenna
AC mains adaptor
Control break-out cable
Video audio input cable
Camera interface cable, 3m
DC input cable
Magnetic bracket
Mounting spike
Pelicans case

Accessory Options (sold separately)

CAMIR-P	Infra red camera PAL
CAMPK-P	Pinhole PAL camera kit containing all four cameras 15-70mm
CAMuP-N	Micro pinhole NTSC camera
CAMuP-P	Micro pinhole PAL camera
CAMuSZPT-P	Micro switched pan-tilt-zoom PAL camera
CAMTELTX-086	868MHz telemetry receiver for camera control

Related Documents

SOL7DCAM User Guide
SOL7DCAM Quick Start Guide



Features and Benefits:

Ultra-low latency High Profile H.264 SD encoding

DVB-T modulation for interoperability with existing systems

Narrowband modulation for extended range, robustness and reduced channel requirements

Compact and robust enclosure

Ideal for rapid deployment tactical scenarios, suitable for outdoor deployment

Integral battery pack provides up to three hours of power

Offers magnetic, tripod or screw fix mounting

Optional AES encryption

NTSC or PAL video format available

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Technical Specification:

IO

Video, audio, camera control, sensor and camera power	12-way Binder (female)
DC in and RS232 control	8-way Binder (male)
RF out	SMA (female)

RF

Antenna	2dBi omni
Power	100mW
Tuning step size	250kHz

Modulation

DVB-T bandwidth	8MHz, 7MHz, 6MHz
DVB-T FEC	1/2, 2/3, 3/4, 5/6, 7/8
UMVL bandwidth	8MHz, 7MHz, 6MHz
UMVL FEC	1/3, 2/3
Narrowband bandwidth	2.5MHz, 1.25MHz, 625kHz
Narrowband FEC	1/3, 2/3

Video

Input	PAL or NTSC
Compression	H.264 MPEG-4
Resolution	720 to 352 pixel configurable
Bitrate	4.8Mb/s to 600kb/s (full frame rate)

Audio

Input	Microphone level (line level with AV cable only)
Compression	Nicam or MPEG layer 1
Sample rate	48kb/s or 32kb/s (user selectable)
Bitrate	64kb/s to 728kb/s (user selectable)

Camera

Sensor	1/4" CMOS fixed focal 3.4mm (56° H-FOV) F2
Format	PAL or NTSC
Additional lenses	8mm and 16mm
Resolution	>460 TVL
Sensitivity	0.05 lux
SNR	>46dB

Microphone

Type	Omni 50-130kHz
Sensitivity	60dB ±3dB

Encryption

AES128/256 bit	Licensed (subject to export control)
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Control

Remote	RS232 control from PC application
Local	Config switch, on/off

Power

Voltage	9-16V
Consumed	5.5W
Battery	2.75-3 hours operating (approx.)

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Technical Specification (con't):

Physical

Dimensions	112mm (L), 45mm (W), 54mm (H)
Weight	500g
Mounting	Magnetic strip, tripod and screw fixing

Environment

Temperature range	-20°C to +60°C
Sealing	IP66

Frequency

165240	1.65-2.40GHz
198270	1.98-2.70GHz

Software License Code

Silver (included)	DVB-T, Ultra Mobile Video Link (UMVL) modulation and MPEG-4 H.264 encoder
Gold	Silver plus 2.5MHz, 1.25MHz modulation and MPEG-4 ASP encoder
Platinum	Gold plus 625MHz modulation
AES128TX	AES 128-bit encryption
AES256TX	AES 256-bit encryption



Export of encrypted products is subject to United Kingdom regulatory export controls.

For further information contact your Sales Account Manager, one of our Regional Sales Offices, or email solent.enquiries@domotactical.com

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